GRAND TOURING SERIES LOUDSPEAKERS

FILE COPY

AUTOMOTIVE SUBWOOFER ENCLOSURE SYSTEMS

GT650T, GT800T, GT1000T, GT8SW & GT10SW OWNER'S MANUAL

GENUINE JBL

Thank You for selecting JBL GT Series Enclosed Subwoofers for your car audio system. The GT Series subwoofers deliver exceptional performance, are very rugged and fit into most popular vehicles. JBL speakers are built with close attention to detail, using only the highest quality materials. They will provide many years of excellent performance.

Introduction

JBL automotive loudspeakers are the result of concentrated efforts to combine traditional JBL performance values with rugged road worthiness at affordable prices. Some of the engineering features of the JBL GT Enclosed Subwoofer Series are:

1. **High Sensitivity.** Allows modest amplifiers to produce sound pressure levels normally associated with amplifiers of substantially higher power ratings.
2. **Acoustically Optimized Cabinets.** Provide smooth uncolored sound and eliminate unwanted resonances.

Power Handling

Thanks to their high efficiency, the JBL Enclosed Subwoofers can produce high sound pressure levels in your car with very little amplifier power. However, using a small amplifier to obtain the desired volume listening levels may lead to overdriving the unit. This will generate high distortion levels and may cause damage to your loudspeakers. For best performance, pick an amp using the "recommended amplifier power" section of the specifications. Following this guideline will provide virtually distortion-free sound reproduction and long loudspeaker life. To optimize best performance, you should also match JBL speakers with high-quality JBL electronics.

General Installation Guidelines

We recommend that you have your JBL GT speakers professionally installed by an authorized JBL automotive dealer. If you choose to do your own installation please read the following information which is critical for optimum performance of your JBL GT speakers.

Placement

JBL speakers are designed for the rigors of the automotive environment and can withstand temperatures which can range from –40 to +200 degrees and extreme humidity. However, you can effectively increase the life of your JBL loudspeakers by avoiding installations which may expose them to moisture or water. Select installation locations very carefully; CAUTION: Look for critical components, such as electrical wiring, hydraulic brake lines, and fuel tank or the fuel lines that may be damaged when drilling holes to secure the speakers. Be extremely cautious as these components can be hidden within double-walled panels. Do not drill until you are sure that doing so will not damage such critical components. Damage to these components can cause immediate or delayed injury and/or property damage.

Securing Your Speakers

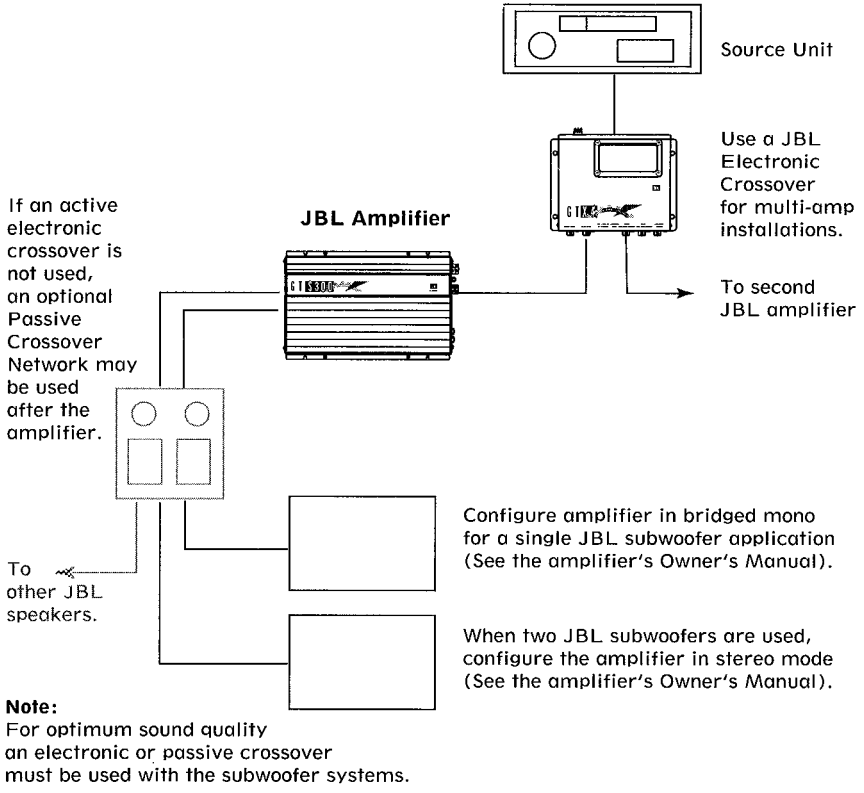
The GT Enclosed Subwoofer systems are designed for easy installation in most cars. However, the speakers should be properly fastened to the vehicle with screws, brackets and/or tie-down straps to prevent movement of the speaker system while the car is in motion. Securing the speakers properly to the car can be a difficult task because of possible interference or damage to car electronics or fuel systems from the screws. Because of this, you should consider having your speaker system installed by a professional if you do not feel your installation skill is sufficient. Failure to secure the speakers properly with commercially available hardware may result in damage to people and property.

Installation and Wiring

To connect the loudspeaker systems to the amplifier, use two-conductor insulated wire. We recommend #16 AWG wire as a minimum size. Connections are made at the terminals located on the back of the loudspeaker system. The push terminal connectors accept bare wires.

In areas where abrasion or excessive flexing can occur, take appropriate measures to guard against failure of the wire's insulating layer. Electrically shorted wires can damage both your electronics and loudspeakers.

Subwoofer Speaker System Connection Diagram


Source Unit
Use a JBL Electronic Crossover for multi-amp installations.
JBL Amplifier
To second JBL amplifier
If an active electronic crossover is not used, an optional Passive Crossover Network may be used after the amplifier.
To other JBL speakers.
Configure amplifier in bridged mono for a single JBL subwoofer application (See the amplifier's Owner's Manual).
When two JBL subwoofers are used, configure the amplifier in stereo mode (See the amplifier's Owner's Manual).

Note:
For optimum sound quality an electronic or passive crossover must be used with the subwoofer systems.

Installing JBL tie-down straps with your JBL subwoofer. (GT650T, GT800T and GT1000T only)

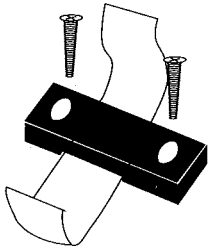
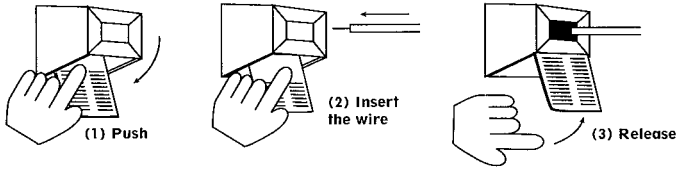


Figure 1



Preparing the hookup wire

1. Strip off 3/8" of insulation from both ends of each conductor.
2. Twist each set of thin wires into a tightly-bunched spiral.
3. At this point you need to identify a visual difference between the two conductors of each molded pair of speaker wire. Differentiating marks can be a different color wire (copper or "silver"); a strand of yarn in one conductor; thin, raised ribs on one part of the outer insulation; or a printed "+" marking on one of the insulators. It does not make a difference which of the two conductors of wire go to (+) and (–) on the speakers and amplifier, as long as both speakers are connected identically.

However, in order to maintain polarity between all of the speakers in the system, you should adhere to the same (+) and (–) designation method for all speakers. Push down on the button below the terminal and insert the wire through the hole (See Figure 1).

For each channel, the red terminal on the loudspeaker should be connected to the red or (+) loudspeaker connection terminal on the receiver or amplifier and the black to the black or (–). Connecting the loudspeakers in this manner ensures that they will be in phase; that is, working together rather than in opposition. Connecting the loudspeakers out of phase will not damage them, but will result in less bass and poor imaging.

Troubleshooting Table

Problem	Solution
No sound from one speaker	1. Balance control turned all the way left or right. 2. Speaker wire has become disconnected. 3. One of the connections between sound source and amplifier is faulty or has become disconnected.
Both speakers play at low volumes but shut off as volume is increased OR sound turns on and off intermittently	A few strands of speaker wire may be shorting out. Recheck the connections. Recheck the impedance requirements of the amp.
Bass is very weak AND/OR sound seems to come from, instead of between the speakers	The polarity (+&–) of one speaker has been reversed relative to the other. Double-check connections.

Specifications

Model	GT650T	GT800T	GT1000T	GT8SW	GT10SW
Description	6-1/2" Tube Subwoofer	8" Tube Subwoofer	10" Tube Subwoofer	8" Pickup Subwoofer	10" Pickup Subwoofer
Recommended Amplifier Power	20W – 160W	20W – 240W	20W – 300W	35W – 240W	35W – 300W
Continuous Power Handling	80W	120W	150W	120W	150W
Impedance	4 Ohms	4 Ohms	4 Ohms	4 Ohms	4 Ohms
Sensitivity	90dB	90dB	90dB	90dB	90dB
Frequency Response	50Hz – 250Hz	40Hz – 250Hz	35Hz – 250Hz	40Hz – 250Hz	35Hz – 250Hz
Dimensions (HxWxD)	12-1/8 x 8-1/8 x 12-1/8" 308 x 206 x 308mm	14 x 10-1/8 x 12-1/8" 356 x 257 x 308mm	16-1/4 x 12 x 12-1/8" 411 x 305 x 308mm	12-1/4 x 18 x 6-1/2" 311 x 457 x 165mm	18 x 23 x 7-3/4" 457 x 584 x 197mm

Service

Should your loudspeaker ever need service, return it to the JBL dealer from whom it was purchased. If for some reason this is impractical, call 800-336-4JBL for your nearest warranty station. Do not return products to the JBL factory without prior authorization.

General Care

The loudspeaker grilles may be cleaned with a slightly damp cloth.

To remove dust from the carpet use a vacuum with a brush attachment. Spots on the carpet may be removed with a commercial spot remover.

Do not use any cleaners or solvents on the grilles or the speaker drivers.

Safety Note

To avoid the dangers of accidental suffocation, please properly dispose of the plastic bag used in the speaker packaging.

Warranty Terms: 1 Year Transferable Limited Warranty / 2 Year Extended Transferable Limited Warranty

This is an important document. Attach your bill of sale to this page and keep it in a safe place. Your bill of sale is your warranty. The JBL warranty remains in effect for one year from the date of the first consumer purchase unless installed by an authorized JBL dealer. Installation by an authorized JBL dealer will extend the warranty to a period of two years.

Who is Protected by this Warranty
The JBL warranty protects the original owner and all subsequent owners providing that the JBL product was purchased from an authorized dealer in the United States or purchased by military personnel from an authorized military outlet. **A copy of the original dated bill of sale must be presented whenever warranty service is required.**

What is Covered by this Warranty
Except as specified below, the JBL warranty covers all defects in material and workmanship. The following are not covered: Damage caused by accident, misuse, abuse, product modification or neglect; damage occurring during shipment; damage from failure to follow instructions contained in the instruction manual; damage resulting from the performance of repairs by someone not authorized by JBL; damage caused by installation of parts that do not conform to JBL specifications; units used for commercial or business use; any claims based on misrepresentations by the seller; products sold on an "as-is" or final sale basis; or the cost of installing, removing, or reinstalling the unit. JBL's liability is limited to the repair or replacement, at our option, of any defective product and shall not include incidental or consequential damages. JBL reserves the right to replace a discontinued model with a comparable model. Any replacement units or parts may be new or rebuilt.

To Obtain Warranty Service
If you require warranty service, please return the product to your dealer. If this is not possible and you live in the United States, please call 1-800-336-4JBL, for information on how to obtain service or replacement.

If purchased outside the United States, contact your local dealer for repair or replacement.

Do Not Return Products to the JBL Factory without Authorization. They will be Returned Unopened. You are responsible for transporting your product for repair or replacement. JBL will pay reasonable return charges for delivery to any location in the United States if the repair or replacement is covered under the warranty.

Correspondence with JBL should be addressed to: JBL Customer Service, 80 Crossways Park West, Woodbury, NY 11797 or fax us at 516-496-0812. Outside the United States, please contact your local distributor.

This warranty gives you specific legal rights. You may also have other rights which vary from state to state. Some states do not allow the exclusion or limitation of incidental or consequential damages or limitations on how long an implied warranty lasts, so the above may not apply to you.

Declaration of Conformity

CE

We, JBL Europe A/S
Kongevejen 194B
DK-3460 Birkerød
DENMARK

declare in own responsibility, that the product described in this owner's manual is in compliance with technical standards:

EN 50 081-1

EN 50 082-1

Steen Michaelsen
JBL Europe A/S
Birkerød. DENMARK. 12/95

JBL Consumer Products, Inc.
80 Crossways Park West
Woodbury, NY 11797

8500 Balboa Blvd.
Northridge, CA 91329

800-336-4JBL (4525)

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